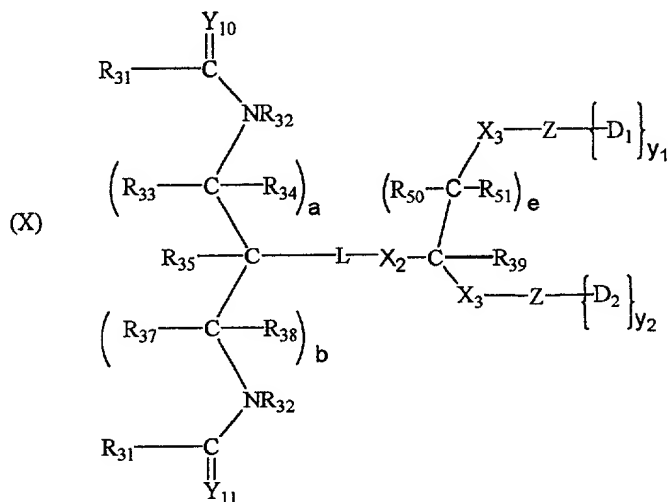


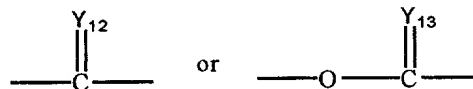
## ABSTRACT

The present invention includes polymeric transport systems corresponding to the formula:



wherein:

$R_{31}$  is a linear or branched polymer residue;  $Y_{10}$  and  $Y_{11}$  are independently O, S, or  $NR_{40}$ ;  $X_2$  is O, S or  $NR_{41}$ ;  $R_{32-35}$ ,  $R_{37-41}$ ,  $R_{50}$  and  $R_{51}$  are independently selected from among hydrogen,  $C_{1-6}$  alkyls,  $C_{3-12}$  branched alkyls,  $C_{3-8}$  cycloalkyls,  $C_{1-6}$  substituted alkyls,  $C_{3-8}$  substituted cycloalkyls, aryls, substituted aryls, aralkyls,  $C_{1-6}$  heteroalkyls and substituted  $C_{1-6}$  heteroalkyls;  $a$ ,  $b$  and  $e$  are each independently selected positive integers;  $L$  is an amino acid residue or a bifunctional linker;  $X_3$  is



wherein  $Y_{12}$  and  $Y_{13}$  are independently O, S, or  $NR_{41}$ ;  $Z$  is a bond, a moiety that is actively transported into a target cell, a hydrophobic moiety or combinations thereof;  $D_1$  and  $D_2$  are OH, a residue of a hydroxyl, a residue of an amine-containing moiety or a leaving group; and  $y_1$  and  $y_2$  are independently selected positive integers.